

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 04214601
PUBLICATION DATE : 05-08-92

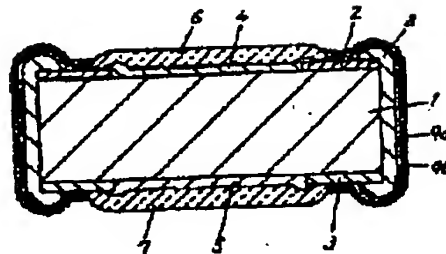
APPLICATION DATE : 12-12-90
APPLICATION NUMBER : 02401536

APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : HASHIMOTO MASATO;

INT.CL. : H01C 7/00 H01C 17/00

TITLE : RECTANGULAR CHIP RESISTOR FOR
FUNCTION CORRECTION USE AND
MANUFACTURE THEREOF



ABSTRACT : PURPOSE: To make possible a high-accuracy correction of the resistance value of a resistor even if the resistance value is greatly corrected and to prevent a disconnection from being generated in the resistor even if an overcorrection of the resistance value is further made in the chip resistor for function correction use, which corrects the operation of a circuit by correcting the resistance value by a laser after being mounted on the circuit.

CONSTITUTION: A resistance element has an insulative sintered substrate 1, a pair of upper surface electrode layers 2 on the surface of this substrate 1, a first resistance layer 4, which overlaps with each one part of these layers 2 and is corrected its function after the element is mounted on a circuit, a pair of rear electrode layers 3 on the rear of the substrate 1, a second resistance layer 5, which overlaps with each one part these layers 3, and a pair of edge face electrode layers 8 which connect electrically the layers 2 with the layers 3. As the layer 5, which is used as the by-pass of a current, is provided on the rear part of the substrate 1 in addition to the layer 4 which is corrected its function, the resistance value of the element is not rapidly increased even if the dimension of a correction of the resistance value is increased. As a result, a high-accuracy correction of the resistance value becomes possible and even if an overcorrection of the resistance value is further made, a disconnection is not generated in the resistance element.

COPYRIGHT: (C)1992 JPO&Japio

BEST AVAILABLE COPY